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Notice of Allowability

Application No.

09/727,452

Examiner

Michael B. Holmes

Applicant(s)

BALAVEN ET AL.

Art Unit

2121

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to September 13, 2005.
2. ☒ The allowed claim(s) is/are 15-34.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



UNITED STATES PATENT AND TRADEMARK OFFICE

P.O. Box 1450, Alexandria, Virginia 22313-1450 – www.USPTO.GOV

Examiner's Detailed Office Action

1. Claims 1-14 have been canceled.
2. Claims 15-34 are allowed.

Examiner's Amendment

3. On Thursday, September 29, 2005, spoke with Mr. Donald E. Stout, Attorney for applicant, Reg. No. 26,422. Confirmed and was authorized to change, by Examiner's Amendment, the word "grip" to --grid-- line 14, claim 15 and line 13, claim 23.

REASONS FOR ALLOWANCE

4. The following is an Examiner's statement for reasons for allowance:
5. The closest prior art *Bugus* (USPN 6,678,642) and *Migdai et al.* (USPN 5,886,702) does not teach or render obvious applicant's claimed invention. In particular, as pointed out below, the prior art lacks certain features and the combination as specified in the respective claims.
6. With regards to claim 15 *Bugus* and *Migdai et al.* do not disclose forming at least one cavity between the at least one first structured grid and each of the at least one second structured

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grid with a sufficient size to allow formation of at least one unstructured grip providing transition between the structured grids, forming each unstructured grid which provides transition by use of a power diagram and by imposing conformity of each unstructured grid providing the transition with walls of each cavity, and generating the hybrid grid by combination of the at least one first structured grid, the at least one second structured grid and the at least one unstructured transition grid.

7. With regards to claim 23 *Bugus* and *Migdai et al.* forming at least one cavity between the at least one first structured grid and each of the at least one second structured grid with a sufficient size to allow formation of at least one unstructured grip providing transition between the structured grids; forming each one unstructured grid which provides transition by use of a power diagram and imposing conformity of each unstructured grid providing the transition with walls of each cavity; generating the hybrid grid by combination of the at least one first structured grid, the at least one second structured grid and the at least one unstructured transition grid; and solving a numerical pattern in the hybrid grid formed for the medium.

Correspondence Information

8. Any inquires concerning this communication or earlier communications from the examiner should be directed to Michael B. Holmes, who may be reached Monday through Friday, between 8:00 a.m. and 5:00 p.m. EST. or via telephone at (571) 272-3686 or facsimile transmission (571) 273-3686 or email Michael.holmesb@uspto.gov.

If you need to send an Official facsimile transmission, please send it to (571) 273-8300.

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If attempts to reach the examiner are unsuccessful the Examiner's Supervisor, Anthony Knight, may be reached at (571) 272-3687.

Hand-delivered responses should be delivered to the Receptionist @ (Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22313), located on the first floor of the south side of the Randolph Building.


Anthony Knight
Supervisory Patent Examiner
Group 3600

Michael B. Holmes
Patent Examiner
Artificial Intelligence
Art Unit 2121
United States Department of Commerce
Patent & Trademark Office

Thursday, September 22, 2005

MBH